ABSTRACT OF THE DISCLOSURE

CDMA codes are multiplexed into a constant-envelope composite signal using weighted majority logic. Based on a commanded power allocation among the signal codes, each signal code is assigned a weighting coefficient dictating the voting power the signal code has each time a vote is conducted, in a manner analogous to corporate shareholder voting. To multiplex the signal codes, a majority vote is conducted each chip period by summing the weighted chip values of the signal codes and assigning a binary value to the majority-voted composite chip based on the sign of the sum. An RF carrier is modulated in accordance with the value of the composite chip. The desired power distribution is achieved by requiring the power ratio of each signal code to be proportional to the square of the expected value of the cross-correlation between the signal code and a stored replica of the signal code at the receiver.